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PATENT, TRADEMARK
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CUSTOMER NO. 24956

Date: August 28, 2003

Attorney Docket No. ASAMURA PATENT OFFIE

To: Assistant Commissioner for Patents
Washington, D.C. 20231

Sir: Transmitted herewith for filing is the patent application of:

Inventor: Y. HIRAIWA et al (SEE ATTACHED LIST)

For:

DISK SUBSYSTEM, COMPUTER SYSTEM, STORAGE MANAGING METHOD
AND PROGRAM

Enclosed are:



4 Sheets of Drawings



This application is being filed without an executed Declaration.



Priority is claimed from Japanese Application No. 2002-320957
filed November 5, 2002.

☐ A certified copy is attached herewith.



Copies of the disclosure documents listed on the attached PTO 1449 form and
☒ discussed in the specification or ☒ attached Information Disclosure Statement.

which is hereby
incorporated by
reference.



A verified statement to establish small entity status under 37 CFR 1.9 and 1.27.



Specification: Abstract X, Description 14 pages; and 5 claim(s).



Preliminary Amendment.



Executed Declaration.

The filing fee is calculated as shown below:

Small Entity

Large Entity

For:	No. Filed	No. Extra
Basic Fee		
Total Claims	5 - 20 = *	0
Indep Claims	4 - 3 = *	1
<input type="checkbox"/> Multiple Dependent Claim (s)		

* If difference is less than zero
then enter '0' in second column

Rate	Fee
	\$ 370
x 9	\$
x 42	\$
+ 140	\$
Total	\$

OR

Rate	Fee
	\$ 750
x 18	\$ 0
x 84	\$ 84
+ 280	\$ 0
Total	\$ 834



A check in the amount of \$ 834.00 is enclosed for the filing fee.



The Commissioner is hereby authorized to charge any additional fees that may be required to
Deposit Account No. 50-1417.

Respectfully Submitted;

By:

John R. Mattingly

Registration No. 30,293